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TECH CENTER 1600/2900



1600

11632

RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/380,324A

TIME: 16:32:48

Input Set : A:\11692-002001.txt

Output Set: N:\CRF3\05292002\I380324A.raw

ENTERED

USE

C-->

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4 <110> APPLICANT: Cichutek, Klaus
5      Stitz, Jorn
7 <120> TITLE OF INVENTION: RETROVIRAL VECTORS, METHODS FOR THEIR PREPARATION AND THEIR
      USE
8      FOR GENE TRANSFER INTO CD4-POSITIVE CELLS
10 <130> FILE REFERENCE: 11692-002001
12 <140> CURRENT APPLICATION NUMBER: US 09/380,324A
C--> 13 <141> CURRENT FILING DATE: 1999-08-27
15 <150> PRIOR APPLICATION NUMBER: PCT/DE98/00593
16 <151> PRIOR FILING DATE: 1998-02-27
18 <150> PRIOR APPLICATION NUMBER: DE 197 07 971.7
19 <151> PRIOR FILING DATE: 1997-02-27
21 <150> PRIOR APPLICATION NUMBER: DE 198 08 438.2
22 <151> PRIOR FILING DATE: 1998-02-27
24 <160> NUMBER OF SEQ ID NOS: 20
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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29 <211> LENGTH: 35
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic oligonucleotide
36 <400> SEQUENCE: 1
37 ctagctagca tgcccctagg atcagaagaa agaag 35
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 33
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Synthetic oligonucleotide
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48 ccgctcgagc taattaagga ttccttcaag gcc 33
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 30
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Synthetic oligonucleotide
58 <400> SEQUENCE: 3
59 caaggetgag acaagcttgg tgtcacttcc 30
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 48
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence

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66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic oligonucleotide
69 <400> SEQUENCE: 4
70 gttaggcagg gttacgcggc cgcttaacca cagatccata tccaccgc 48
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 50
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic oligonucleotide
80 <400> SEQUENCE: 5
81 cgggttgata tggatctgtg gttaagcggc cgcctaaccc tgcctaaccc 50
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 48
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Synthetic oligonucleotide
91 <400> SEQUENCE: 6
92 tactctctc tttctcggc ccgctaaatc caccctgtga agggacag 48
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 53
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Synthetic oligonucleotide
102 <400> SEQUENCE: 7
103 tcccttccac ggggtgattt agcggccgcg agaaagagga gagtaaccct gcc 53
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 41
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic oligonucleotide
113 <400> SEQUENCE: 8
114 atccaccggt ggaagggcgg ccgctaaaac gcagaagggc c 41
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 43
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic oligonucleotide
124 <400> SEQUENCE: 9
125 cccttctgcg ttttagcggc cgccttcca cgggttgata tgg 43
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 56
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:

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133 <223> OTHER INFORMATION: Synthetic oligonucleotide
135 <400> SEQUENCE: 10
136 aaaaggaaaa gcggccgctc gattagtcca atttgtaaa gacaggatat cagtgg      56
138 <210> SEQ ID NO: 11
139 <211> LENGTH: 51
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Synthetic oligonucleotide
146 <400> SEQUENCE: 11
147 aaaaggaaaa gcggccgcga caggatatca gtggtccagg ctctagtttt g      51
149 <210> SEQ ID NO: 12
150 <211> LENGTH: 49
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthetic oligonucleotide
157 <400> SEQUENCE: 12
158 aaaaggaaaa gcggccgcct atggctogta ctctataggc ttcagctgg      49
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 24
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 13
166 Val Leu Gly Ile Ile Gly Leu Arg Leu Leu Tyr Thr Val Tyr Ser Cys
167 1          5          10          15
168 Ile Ala Arg Val Arg Gln Gly Tyr
169          20
171 <210> SEQ ID NO: 14
172 <211> LENGTH: 19
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 14
177 Ser Pro Leu Ser Pro Gln Ile His Ile Pro Trp Leu Gly Gln Pro Asp
178 1          5          10          15
179 Asn Ala Glu
182 <210> SEQ ID NO: 15
183 <211> LENGTH: 15
184 <212> TYPE: PRT
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 15
188 Ser Pro Leu Ser Pro Gln Ile His Ile Pro Trp Leu Gly Gly Arg
189 1          5          10          15
191 <210> SEQ ID NO: 16
192 <211> LENGTH: 7
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 16
197 Ser Pro Leu Ser Arg Gly Arg

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200 <210> SEQ ID NO: 17
201 <211> LENGTH: 16
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 17
206 Ser Pro Leu Ser Arg Gly Arg Asn Arg Ile Ser Val Val Gln Ala Leu
207 1 5 10 15
209 <210> SEQ ID NO: 18
210 <211> LENGTH: 19
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 18
215 Ala Ala Ala Arg Leu Val Gln Phe Val Lys Asp Arg Ile Ser Val Val
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217 Gln Ala Leu
220 <210> SEQ ID NO: 19
221 <211> LENGTH: 30
222 <212> TYPE: PRT
223 <213> ORGANISM: Mus musculus
225 <400> SEQUENCE: 19
226 Ser Pro Trp Phe Thr Thr Leu Ile Ser Thr Ile Met Gly Pro Leu Ile
227 1 5 10 15
228 Val Leu Leu Met Ile Leu Leu Phe Gly Pro Cys Ile Leu Asn
229 20 25 30
231 <210> SEQ ID NO: 20
232 <211> LENGTH: 16
233 <212> TYPE: PRT
234 <213> ORGANISM: Mus musculus
236 <400> SEQUENCE: 20
237 Arg Leu Val Gln Phe Val Lys Asp Arg Ile Ser Val Val Gln Ala Leu
238 1 5 10 15

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VERIFICATION SUMMARY

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date